

TR-8460



SPECIFICATIONS










Circuit System:	11-transistor 1-diode superheterodyne
Frequency Coverage:	108 — 136 MHz (2.78 — 2.20 m)
Intermediate Frequency:	10.7 MHz
Antenna System:	Built-in telescopic antenna
Sensitivity at 50 mW output:	1 μ V (0 dB) at S/N 6 dB
Selectivity at +200 kHz off-resonance:	50 dB at 122 MHz
at -200 kHz off-resonance:	55 dB at 122 MHz
Power Output at 10% distortion:	670 mW
maximum:	900 mW
Current Drain at zero signal:	26 mA
at 10% distortion:	240 mA
Power Requirement:	Four "D" size flashlight batteries 6V or house current by using ac adaptor AC-601W
Speaker:	9.2 cm (3 ³ / ₄ " dia. 8 Ω
Dimensions:	268 mm (W) x 140 mm (H) x 53 mm (D) (10 ¹ / ₂ " x 5 ¹ / ₂ " x 2 ¹ / ₁₆ ")
Weight:	1.3 kg (2 lb 14 oz) with batteries

SONY®
SERVICE MANUAL

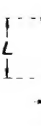
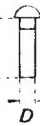
TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
	Specifications	1
1. OUTLINE		3
1-1. External View		3
1-2. Internal View		3
1-3. Block Diagram		3
2. DISASSEMBLY		4
2-1. Rear Cabinet Removal		4
2-2. Circuit Board Removal		4
2-3. Cursor Removal		4
2-4. Dial Cord Stringing		4
3. CIRCUIT ADJUSTMENTS		6
3-1. I-f Alignment		6
3-2. Frequency Coverage and Tracking Adjustment		6
4. MOUNTING AND SCHEMATIC DIAGRAM		7
4-1. Mounting Diagram – Component Side –		7
4-2. Mounting Diagram – Conductor Side –		8
4-3. Schematic Diagram		9
5. EXPLODED VIEW AND PACKING		10
5-1. Exploded View (1)		10
5-2. Exploded View (2)		11
5-3. Packing		12
6. ELECTRICAL PARTS LIST		13

Hardware Nomenclature

P – Pan Head Screw 	E – Retaining Ring (E Washer) 
K – Flat Countersunk Head Screw 	W – Washer
B – Binding Head Screw 	SW – Spring Washer
RK – Oval Countersunk Head Screw 	LW – Lock Washer
T – Truss Head Screw 	N – Nut
R – Round Head Screw 	
F – Flat Fillister Head Screw 	
SC – Set Screw 	

Example —	
⊕ P 3 x 10	Length in mm (L)
	Diameter in mm (D)
	Type of Head

	
---	---

When ordering replacement parts, you should use **PART NUMBER** listed on the Parts Lists or shown in the **EXPLODED VIEW**.
The reference number should not be used for ordering purposes.

SECTION 1 OUTLINE

1-1. EXTERNAL VIEW

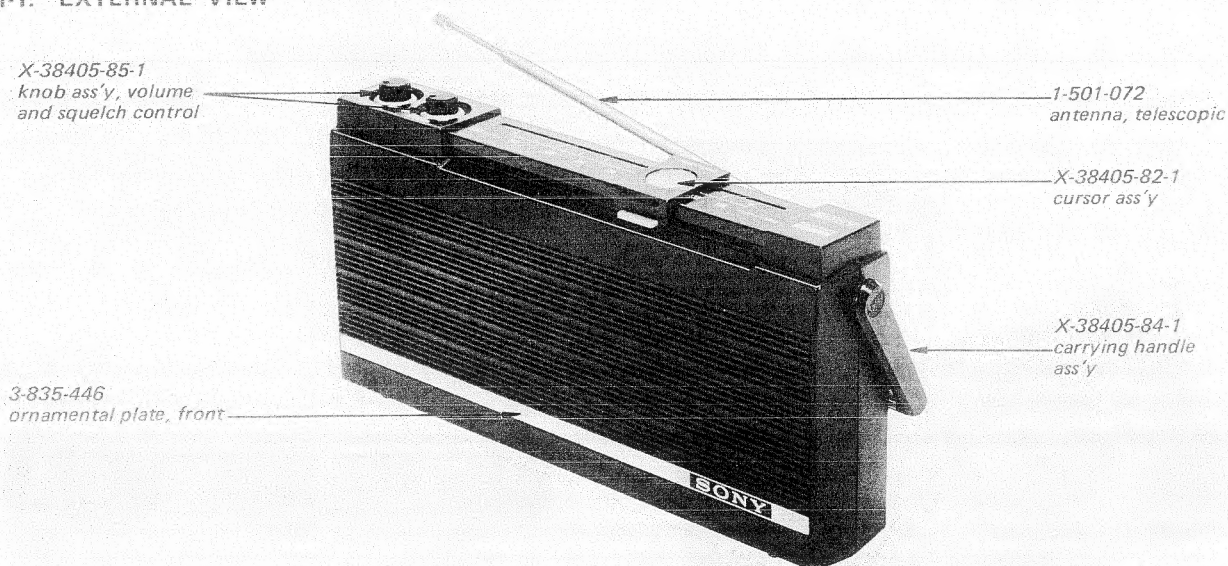


Fig. 1-1

1-2. INTERNAL VIEW

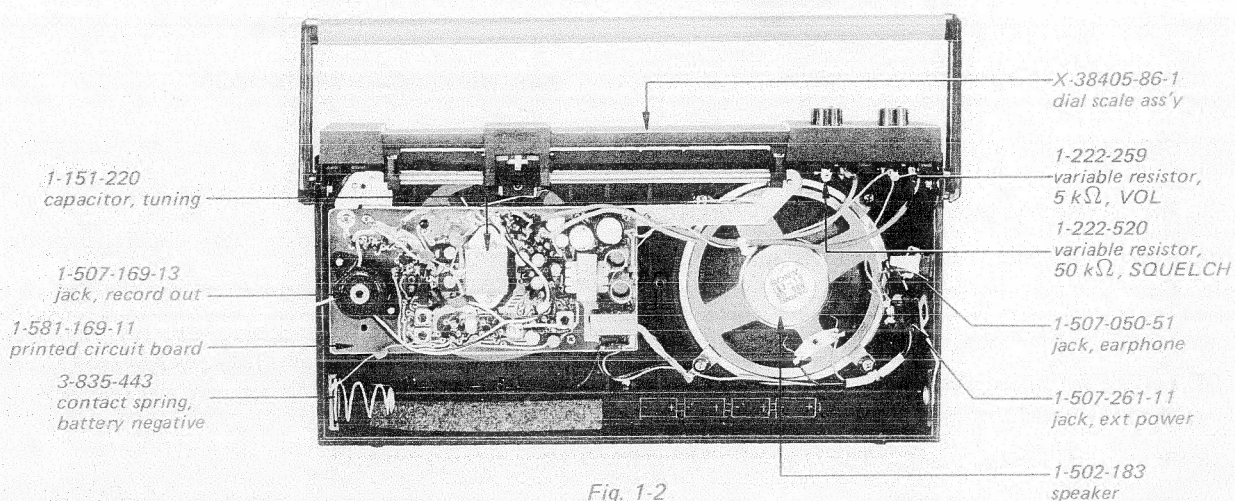
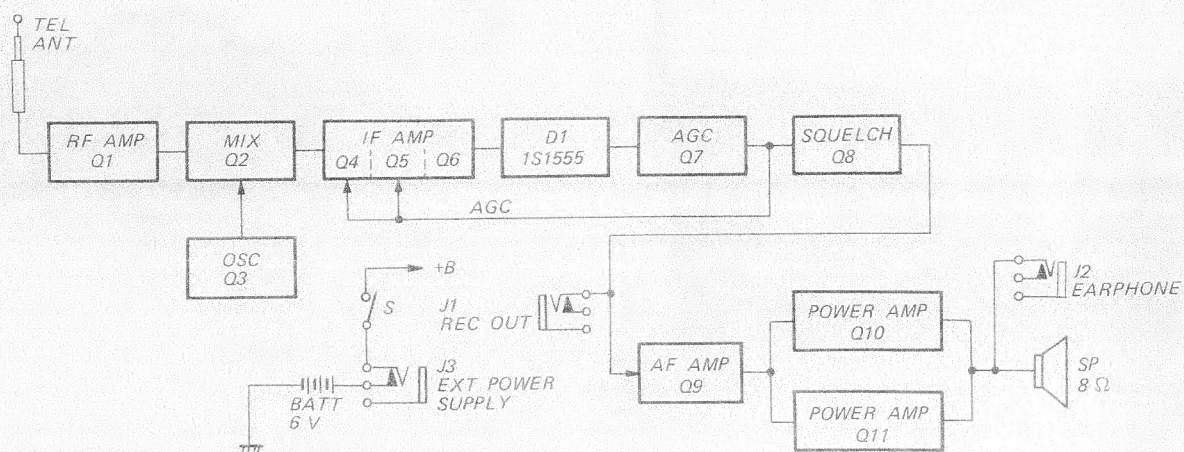


Fig. 1-2

1-3. BLOCK DIAGRAM



SECTION 2 DISASSEMBLY

2-1. REAR CABINET REMOVAL

1. Open the battery lid and remove the batteries.
2. Remove the three screws marked (A) in Fig. 2-1.
3. Open the rear cabinet and remove the telescopic antenna lead pin.

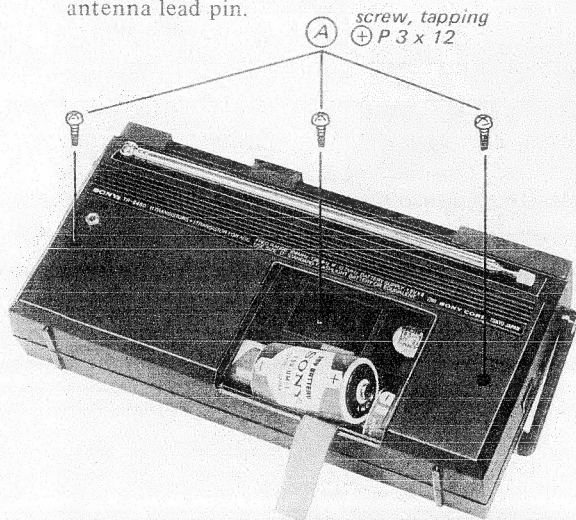


Fig. 2-1

2-2. CIRCUIT BOARD REMOVAL

1. Remove the rear cabinet.
2. Remove the four screws marked (B) and (C) in Fig. 2-2.
3. Unsolder the capacitor leg at the battery spring.
4. Loosen the screw marked (D) in Fig. 2-2 and remove the dial cord from the dial cord retainer.
5. Remove the circuit board.

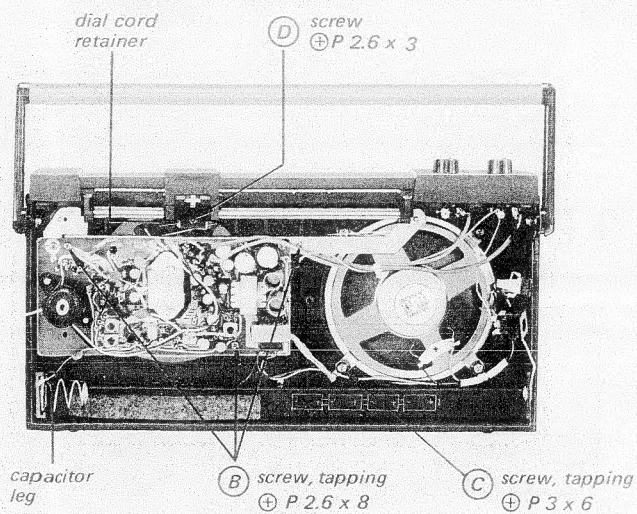


Fig. 2-2

2-3. CURSOR REMOVAL

1. Remove the rear cabinet.
2. Loosen the screw marked (D) in Fig. 2-2 and remove the dial cord from the dial cord retainer.
3. Remove the two screws marked (E) in Fig. 2-3 and remove the dial scale holding case.
4. Remove the cursor.

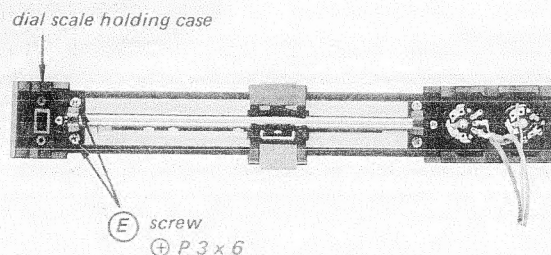


Fig. 2-3

2-4. DIAL CORD STRINGING

1. Remove the circuit board as shown in Fig. 2-4.
2. Prepare the dial cord as shown in Fig. 2-5.
3. Turn the dial drum fully counterclockwise.
4. String the dial cord as shown in Fig. 2-5.
5. When setting the cursor, turn the dial drum fully clockwise and attach the dial cord to the dial cord retainer at the left end of dial scale.

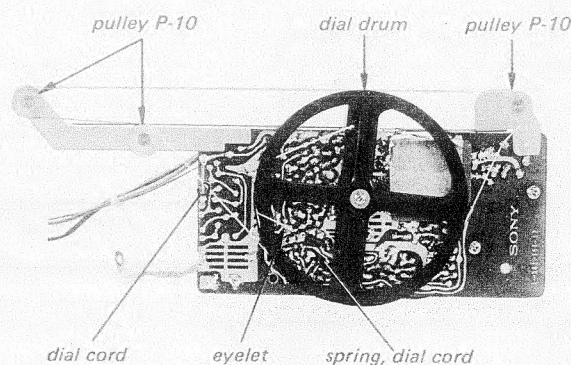


Fig. 2-4

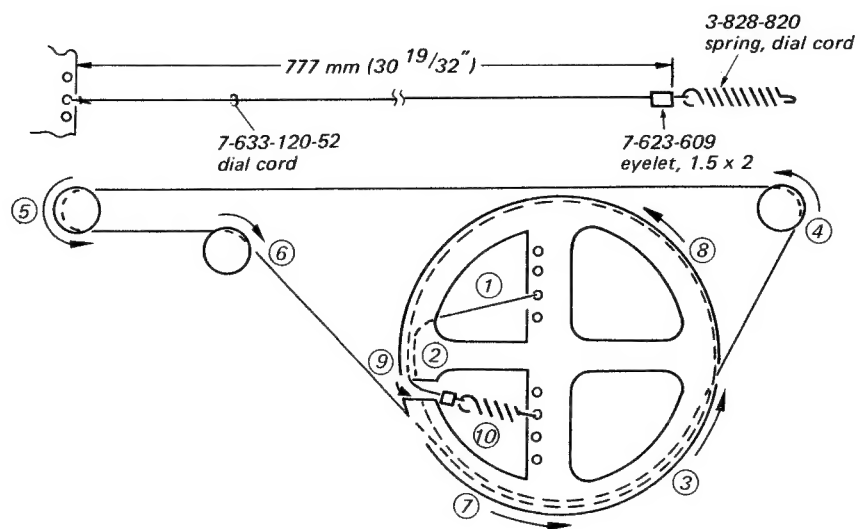


Fig. 2-5

SECTION 3
CIRCUIT ADJUSTMENTS

Preparation

Test Equipments/Tools Required:

- Rf signal generator (for a-m)
- VTVM
- 8 Ω resistor
- Screwdriver for alignment

Preparation: VTVM Connection:

To earphone jack with 8 Ω load resistor in parallel.

Modulation: 1-kHz 30-% amplitude-modulated signal

VOL Control Setting: MAX

SQUELCH Control Setting: OFF

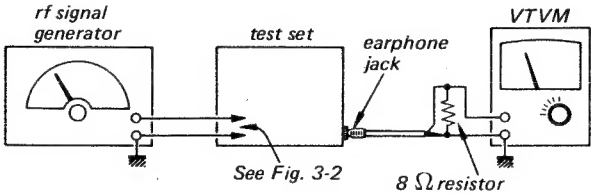


Fig. 3-1. Fm frequency coverage and tracking adjustment setup

3-1. IF ALIGNMENT

Rf Signal Generator Coupling	Rf Signal Generator Frequency	VTVM Connection	Adjust	Remarks
See Fig. 3-1 and Fig. 3-2	10.7 MHz (1 kHz 30% a-m)	Earphone jack with 8 Ω load resistor in parallel	IFT 1 IFT 2 IFT 3 IFT 4	VOL control : MAX SQUELCH control : OFF Adjust for maximum meter reading.

3-2. FREQUENCY COVERAGE AND TRACKING ADJUSTMENT

Adjustment	Rf Signal Generator Coupling	Rf Signal Generator Frequency	Receiver Dial Setting	Adjust	Remarks
Frequency Coverage	See Fig. 3-2	107.0 MHz	Fully left	osc coil L3	Adjust for maximum meter reading.
		137.5 MHz	Fully right	osc trimmer CT2	VOL control : MAX SQUELCH control : OFF
Tracking		108 MHz	Tune to 108 MHz signal	rf coil L2	
		136 MHz	Tune to 136 MHz signal	rf trimmer CT 1	

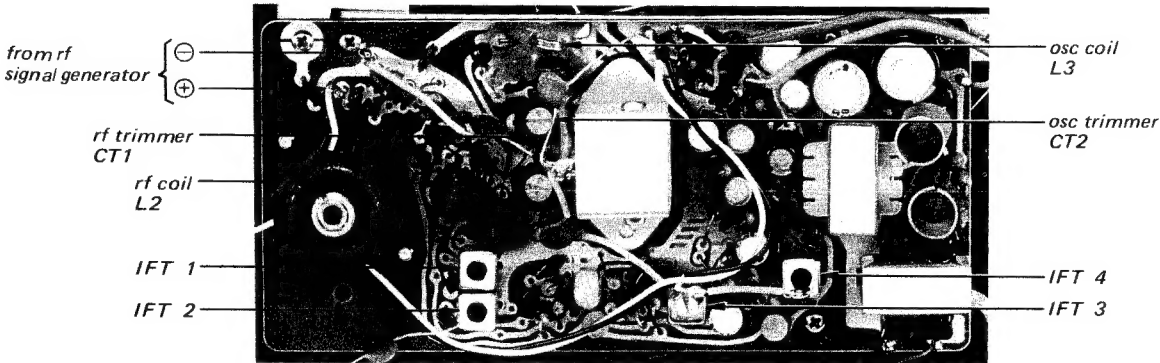
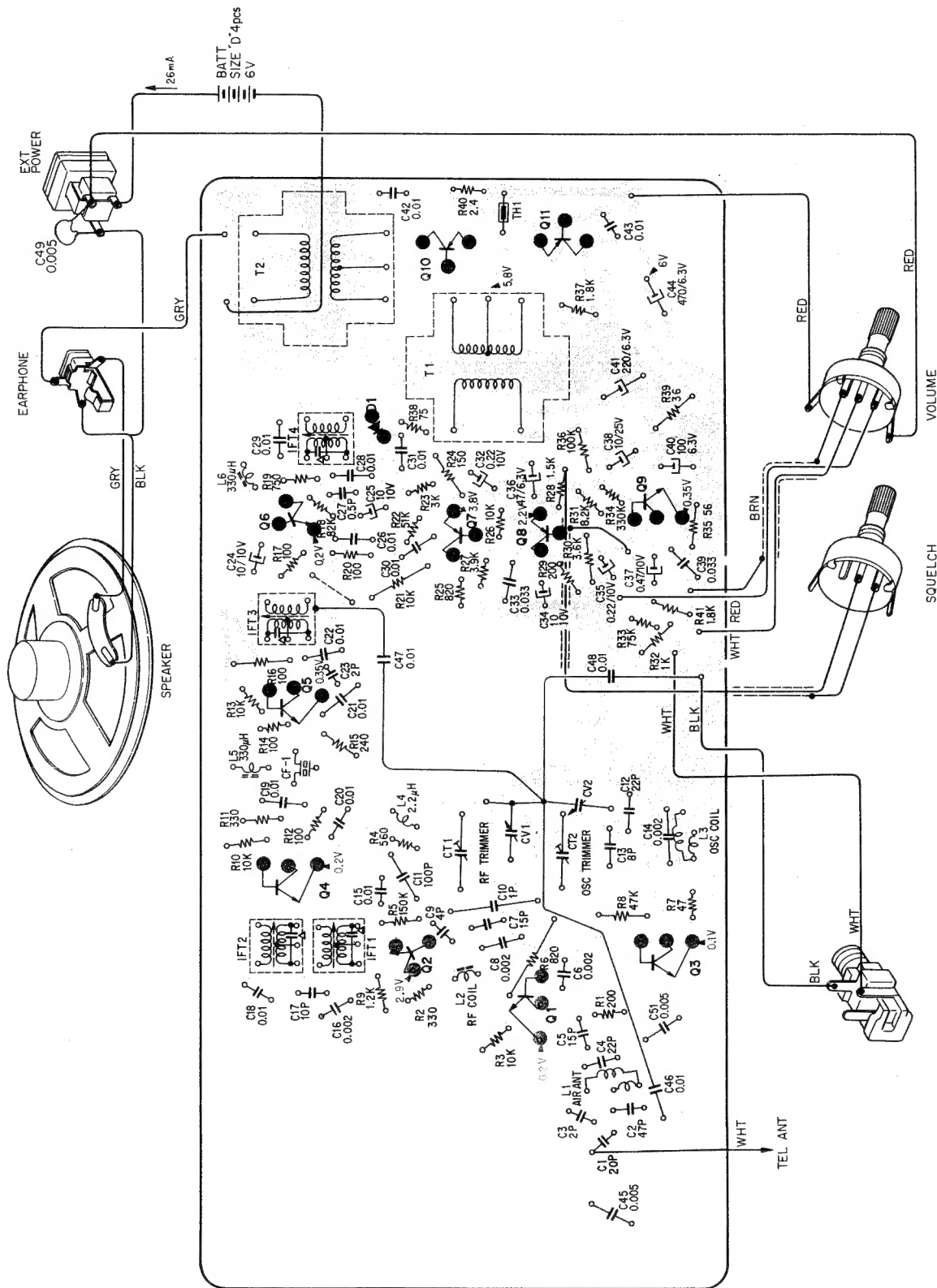


Fig. 3-2

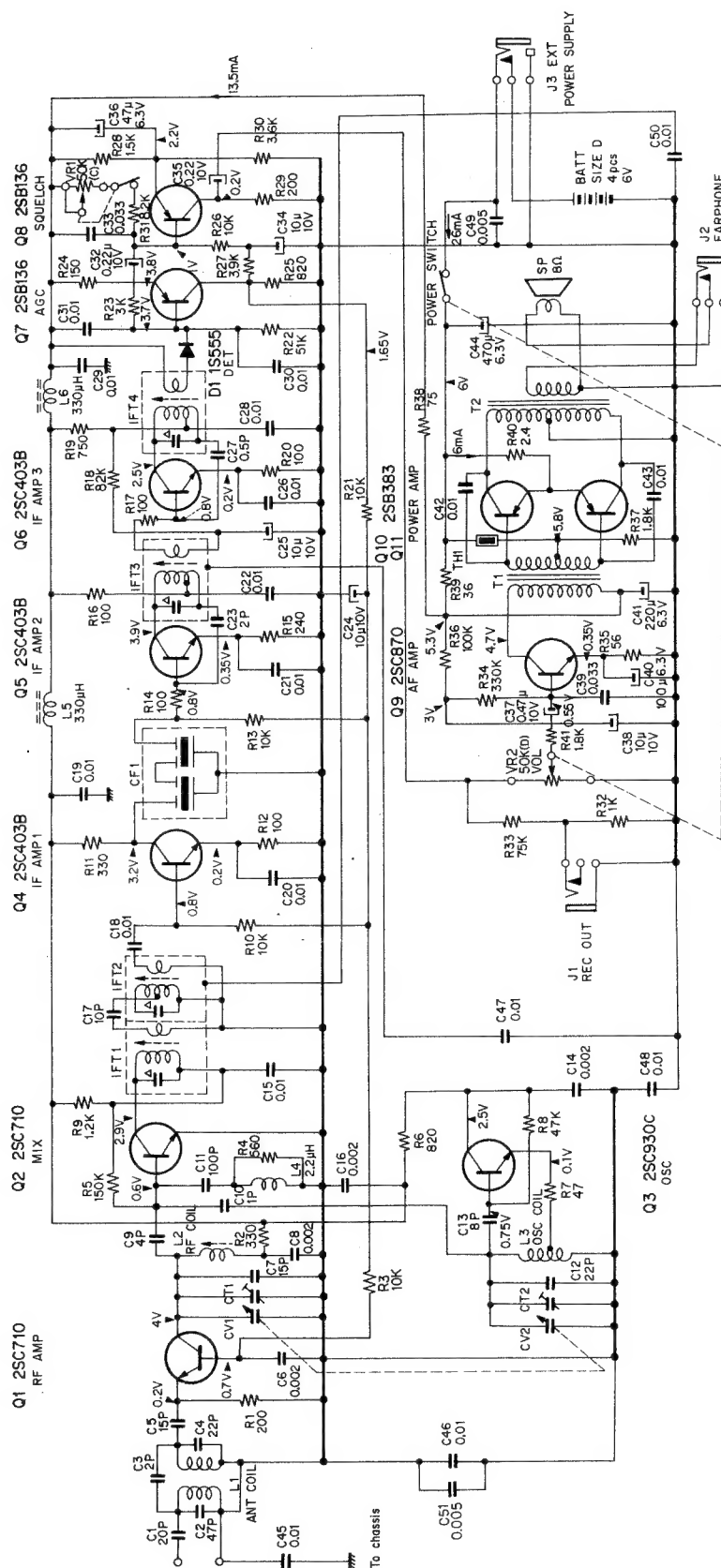
4.2. MOUNTING DIAGRAM

— Conductor Side —



Printed circuit board,
Part No. 1-581-169-11

4.3. SCHEMATIC DIAGRAM



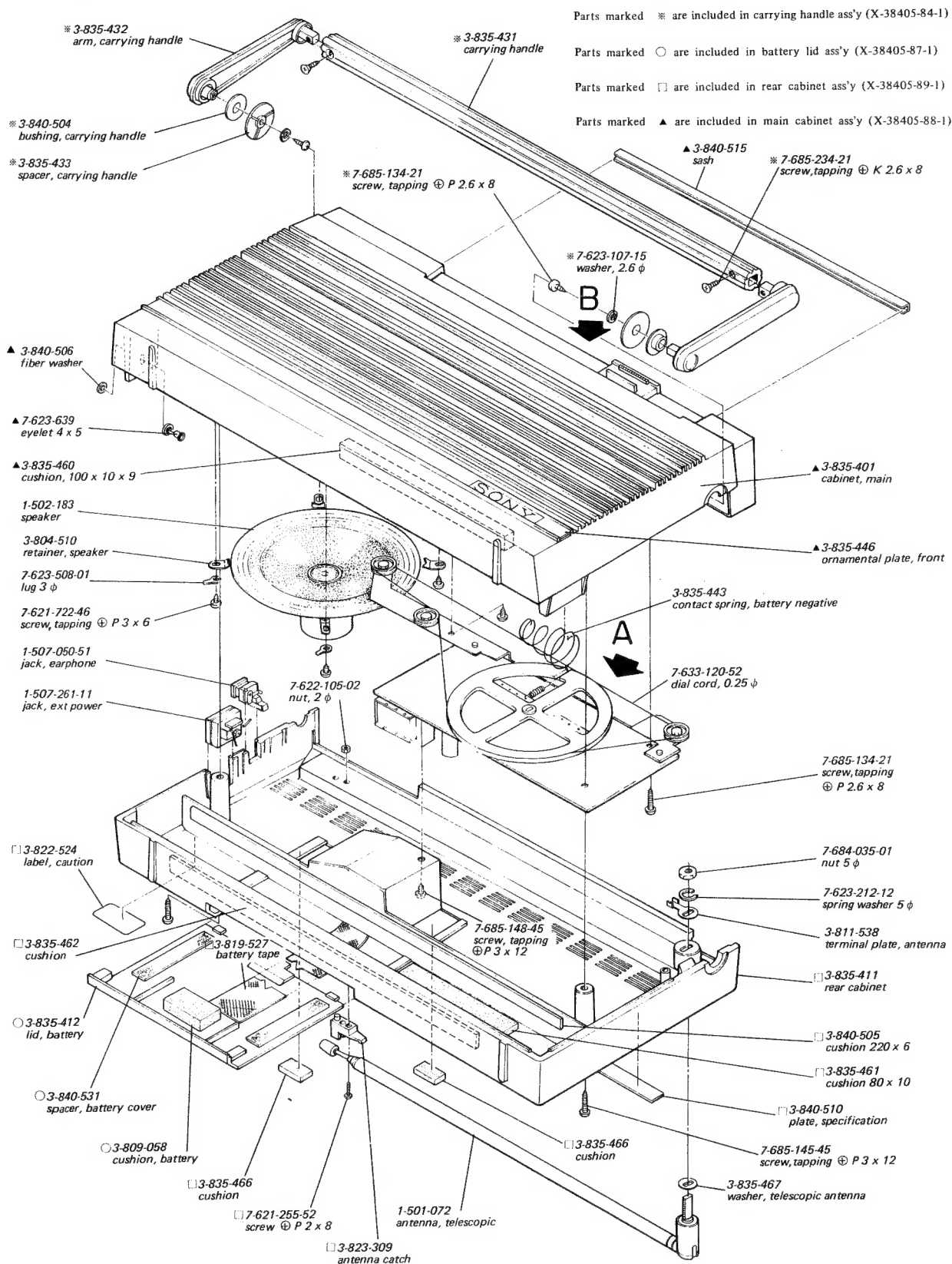
Notes:

1. All resistors and capacitors are in Ω and μF , unless otherwise indicated.
2. Capacitors marked Δ are built in i-f transformers.
3. Voltage values are measured to ground circuit with a dc voltmeter (20 $\text{k}\Omega/\text{V}$) and current value is measured with a dc ammeter.
Voltage and current values are measured when no signal is received.
Variations may be noted due to normal production tolerances.

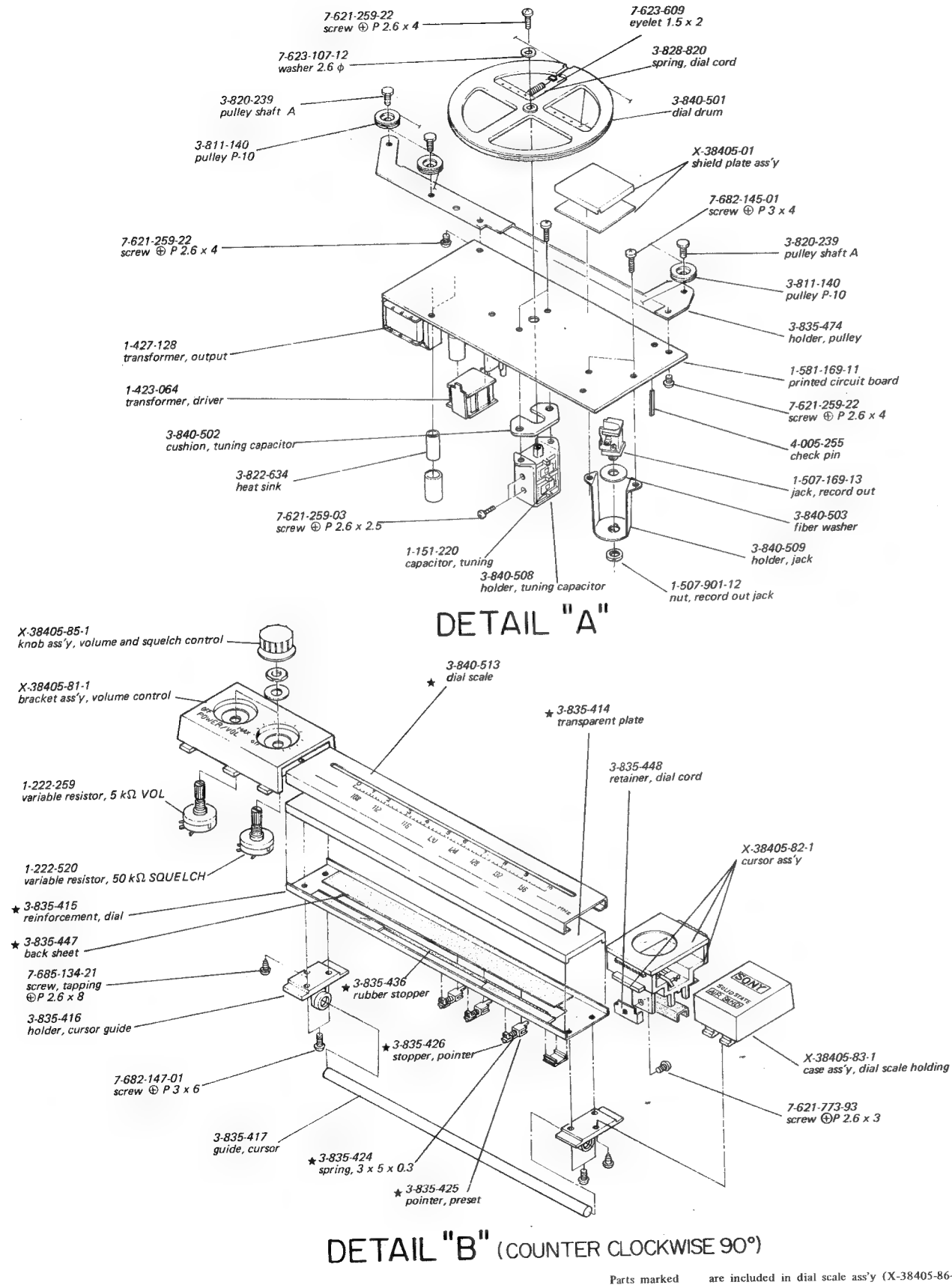
SECTION 5

EXPLODED VIEW AND PACKING

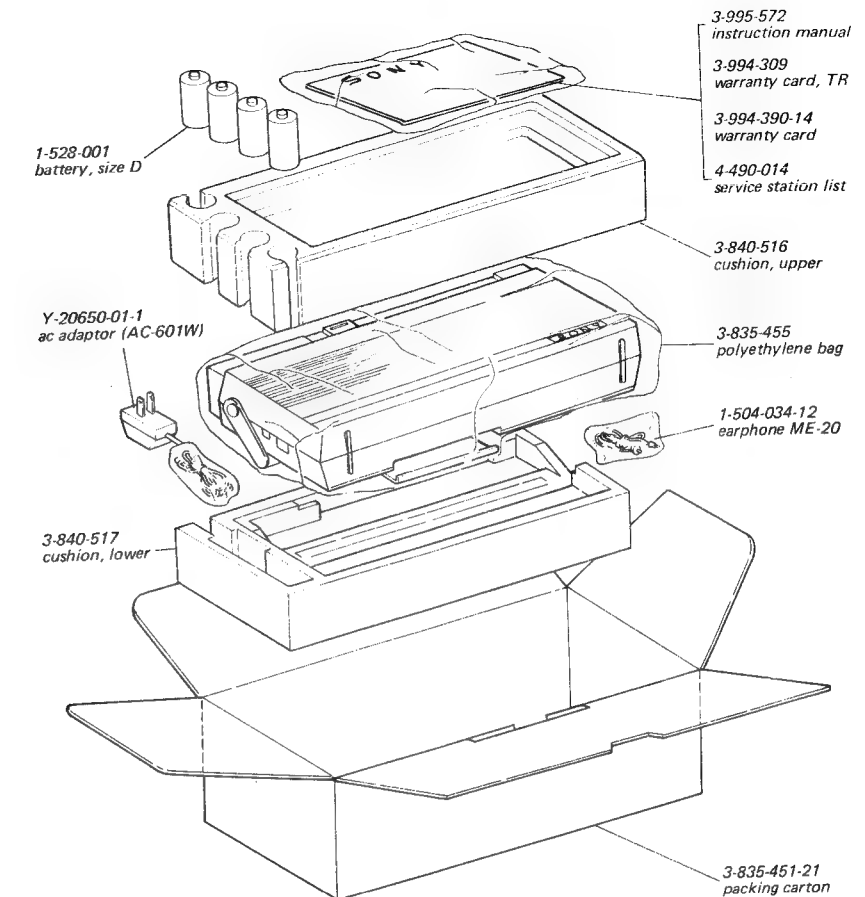
5-1. EXPLODED VIEW (1)



5-2. EXPLODED VIEW (2)



5-3. PACKING



SECTION 6 ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
SEMICONDUCTORS					
Q1		transistor 2SC710	L2	1-425-533	coil, rf
Q2		transistor 2SC710	L3	1-405-479	coil, osc
Q3		transistor 2SC930-C	L4	1-407-182	2.2 μ H, micro inductor
Q4		transistor 2SC403B	L5	1-407-175	330 μ H, micro inductor
Q5		transistor 2SC403B	L6	1-407-175	330 μ H, micro inductor
Q6		transistor 2SC403B	IFT 1	1-403-243-31	transformer, i-f
Q7		transistor 2SB136B	IFT 2	1-403-243-31	transformer, i-f
Q8		transistor 2SB136B	IFT 3	1-403-555-11	transformer, i-f
Q9		transistor 2SC870	IFT 4	1-403-555-11	transformer, i-f
Q10		transistor 2SB383	CF1	1-527-501-11	ceramic filter (RED)
Q11		transistor 2SB383		1-527-501-12	ceramic filter (BLU)
D1		diode 1S1555		1-527-501-13	ceramic filter (ORG)
TH1		thermistor CS-47		1-527-501-14	ceramic filter (BLK)
				1-527-501-15	ceramic filter (WHT)
				1-527-501-16	ceramic filter (GRN)
				1-527-501-17	ceramic filter (YEL)
COILS AND TRANSFORMERS					
L1	1-401-383	coil, antenna	T1	1-423-064	transformer, driver
			T2	1-427-128	transformer, output

Ref. No. Part No. Description

CAPACITORS

CV1, 2	1-151-220	capacitor, tuning
CT1, 2	1-141-097	capacitor, trimmer
C1	1-102-958	20 pF ceramic
C2	1-101-880	47 pF ceramic
C3	1-102-939	2 pF ceramic
C4	1-101-959	22 pF ceramic
C5	1-102-951	15 pF ceramic
C6	1-101-919	0.002 μ F ceramic
C7	1-102-951	15 pF ceramic
C8	1-101-919	0.002 μ F ceramic
C9	1-102-941	4 pF ceramic
C10	1-102-938	1 pF ceramic
C11	1-107-085	100 pF silvered mica
C12	1-102-600	22 pF ceramic
C13	1-102-945	8 pF ceramic
C14	1-101-919	0.002 μ F ceramic
C15	1-101-923	0.01 μ F ceramic
C16	1-101-919	0.002 μ F ceramic
C17	1-102-947	10 pF ceramic
C18	1-105-833-12	0.01 μ F mylar
C19	1-101-923	0.01 μ F ceramic
C20	1-105-833-12	0.01 μ F mylar
C21	1-105-833-12	0.01 μ F mylar
C22	1-105-833-12	0.01 μ F mylar
C23	1-102-939	2 pF ceramic
C24	1-121-469	10 μ F 10 V electrolytic
C25	1-121-469	10 μ F 10 V electrolytic
C26	1-105-833-12	0.01 μ F mylar
C27	1-101-837	0.5 pF ceramic
C28	1-105-833-12	0.01 μ F mylar
C29	1-105-833-12	0.01 μ F mylar
C30	1-105-833-12	0.01 μ F mylar
C31	1-105-833-12	0.01 μ F mylar
C32	1-127-020	0.22 μ F 10 V electrolytic (alox)
C33	1-105-839-12	0.033 μ F mylar
C34	1-121-469	10 μ F 10 V electrolytic
C35	1-127-020	0.22 μ F 10 V electrolytic (alox)
C36	1-121-487	47 μ F 6.3 V electrolytic
C37	1-127-022	0.47 μ F 10 V electrolytic (alox)
C38	1-121-469	10 μ F 10 V electrolytic
C39	1-105-839-12	0.033 μ F mylar
C40	1-121-413	100 μ F 6.3 V electrolytic
C41	1-121-420	220 μ F 6.3 V electrolytic
C42	1-105-833-12	0.01 μ F mylar
C43	1-105-833-12	0.01 μ F mylar
C44	1-121-425	470 μ F 6.3 V electrolytic
C45	1-101-923	0.01 μ F ceramic
C46	1-101-923	0.01 μ F ceramic
C47	1-101-923	0.01 μ F ceramic
C48	1-101-923	0.01 μ F ceramic
C49	1-101-917	0.005 μ F ceramic
C50	1-101-923	0.01 μ F ceramic
C51	1-101-917	0.005 μ F ceramic

Ref. No. Part No. Description

RESISTORS

All resistors are $\frac{1}{4}$ W, carbon type resistors unless otherwise noted.

VR1	1-222-520	variable resistor 50 k Ω , SQUELCH
VR2	1-222-259	variable resisotr 5 k Ω , VOL
R1	1-242-656	200 Ω
R2	1-242-661	330 Ω
R3	1-242-697	10 k Ω
R4	1-242-669	560 Ω
R6	1-242-671	820 Ω
R7	1-242-641	47 Ω
R8	1-242-713	47 k Ω
R9	1-242-675	1.2 k Ω
R10	1-242-697	10 k Ω
R11	1-242-661	330 Ω
R12	1-242-649	100 Ω
R13	1-242-697	10 k Ω
R14	1-242-649	100 Ω
R15 ¹	1-242-658	240 Ω
R16	1-242-649	100 Ω
R17	1-242-649	100 Ω
R18	1-242-719	82 k Ω
R19	1-242-670	750 Ω
R20	1-242-649	100 Ω
R21	1-242-697	10 k Ω
R22	1-242-714	51 k Ω
R23	1-242-684	3 k Ω
R24	1-242-653	150 Ω
R25	1-242-671	820 Ω
R26	1-242-697	10 k Ω
R27	1-242-687	3.9 k Ω
R28	1-244-677	1.5 k Ω
R29	1-242-656	200 Ω
R30	1-242-686	3.6 k Ω
R31	1-242-695	8.2 k Ω
R32	1-242-673	1 k Ω
R33	1-242-718	75 k Ω
R34	1-242-733	330 k Ω
R35	1-242-643	56 Ω
R37	1-242-679	1.8 k Ω
R38	1-242-646	75 Ω
R39	1-242-638	36 Ω
R40	1-242-610	2.4 Ω
R41	1-244-679	1.8 k Ω

MISCELLANEOUS

TEL } ANT }	1-501-072	antenna, telescopic
SP	1-502-183	speaker
	1-506-108-31	terminal pin, antenna
J1	1-507-169-13	jack, record out
J2	1-507-050-51	jack, earphone
J3	1-507-261-11	jack, ext. power
	1-507-901-12	nut, record out jack


SONY CORPORATION

1K0508-2

© Printed in Japan

SUPPLEMENT

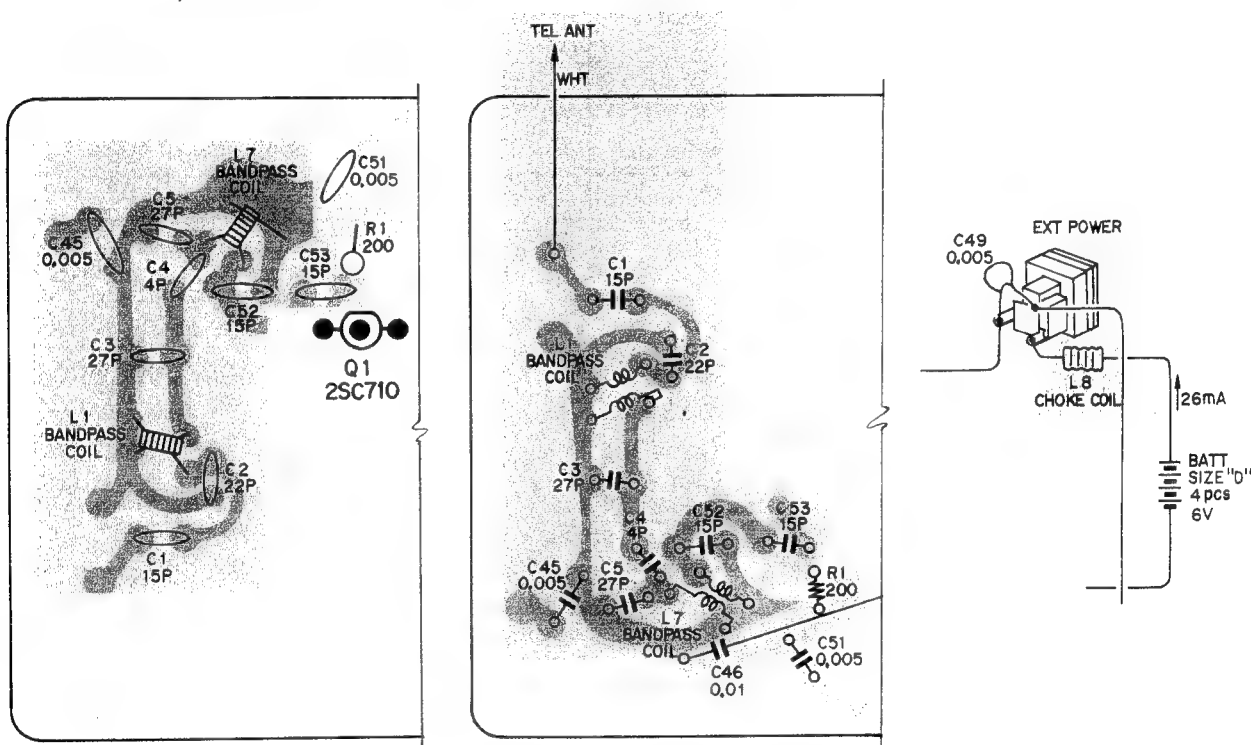
No. 1
MARCH 1972

This supplement updates the service manual to include production changes starting with serial number **14001**.
Blue shades  indicate changed portions.
File this supplement with the service manual.

1. MOUNTING DIAGRAM CHANGES : Pages 7 and 8

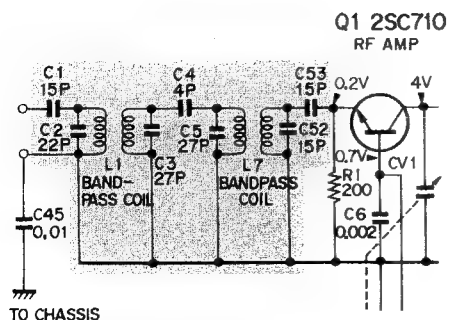
— Component Side —

— Conductor Side —

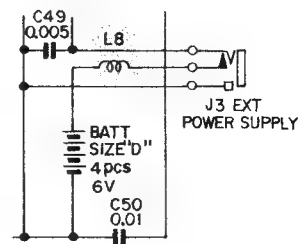


2. SCHEMATIC DIAGRAM CHANGES : Page 9

Antenna Circuit



Power Supply Circuit



3. ELECTRICAL PARTS LIST CHANGE : Pages 12 and 13

ORIGINAL			CHANGED TO	
<i>Ref. No.</i>	<i>Part No.</i>	<i>Description</i>	<i>Part No.</i>	<i>Description</i>
L1	1-401-383	coil, antenna	1-401-484	coil, bandpass
L7		(not used)	1-401-484	coil, bandpass (added)
L8		(not used)	1-421-006	coil, choke (added)
C1	1-102-958	20 pF ceramic	1-102-951	15 pF ceramic
C2	1-101-880	47 pF ceramic	1-102-959	22 pF ceramic
C3	1-102-939	2 pF ceramic	1-102-961	27 pF ceramic
C4	1-101-959	22 pF ceramic	1-102-941	4 pF ceramic
C5	1-102-951	15 pF ceramic	1-102-961	27 pF ceramic
C52		(not used)	1-102-951	15 pF ceramic (added)
C53		(not used)	1-102-951	15 pF ceramic (added)
		printed circuit board (not listed)	1-581-169-14	printed circuit board (added)

SONY CORPORATION

SONY®

Complete Spare Parts List

Model **TR-8460**

Serial No. 14,001 and later

"IMPORTANT"

When ordering parts, please do not fail to furnish us the following:

1. Part Number
2. Model Name
3. Description as mentioned in this parts list

We are now using EDPS (Electronic Data Processing System) in all the departments concerned, for procurement, inventory control, packing, warehousing, etc. Your orders are processed mainly from the PART NUMBERS referred by you. Incorrect part numbers, therefore, will result in incorrect parts shipment. To assure prompt shipment of correct parts, your cooperation will be appreciated.

NOTE:

Prices are subject to change without notice.

SONY CORPORATION

COMPLETE SPARE PARTS LIST FOR TR-8460

(Serial No. 14,001 and later)

MARCH, 1972

<u>Part No.</u>	<u>Description</u>	<u>Unit Price</u>
<u>A. MECHANICAL PARTS</u>		
X-38405-01	Shield Plate Ass'y -----	\$0.04
X-38405-81-1	Bracket Ass'y, volume control -----	0.20
X-38405-82-1	Cursor Ass'y -----	0.50
X-38405-83-1	Case Ass'y, dial scale holding -----	0.26
X-38405-84-1	Carrying Handle Ass'y, including -----	0.80
3-835-431	Carrying Handle -----	0.21
3-835-432	Arm, carrying handle -----	0.06
3-835-433	Spacer, carrying handle -----	0.01
3-840-504	Bushing, carrying handle -----	0.03
7-685-134-21	Screw, tapping (+) P 2.6 x 8 -----	0.28/100
7-685-234-21	Screw, tapping (+) K 2.6 x 8 -----	0.23/100
7-623-107-15	Washer, 2.6 ϕ -----	0.09/100
	* * *	
X-38405-85-1	Knob Ass'y, volume and squelch control -----	0.10
X-38405-86-1	Dial Scale Ass'y, including -----	0.90
3-835-414	Transparent Plate -----	0.09
3-835-436	Rubber Stopper -----	0.01
3-835-447	Back Sheet -----	0.01
3-835-415	Reinforcement, dial -----	0.01
3-835-425	Pointer, preset -----	0.01
3-835-424	Spring, 3 x 5 x 0.3 -----	0.01
3-835-426	Stopper, pointer -----	0.02
3-840-513	Dial Scale -----	0.23
3-835-440	Cap -----	0.01
	* * *	
X-38405-87-1	Battery Lid Ass'y, including -----	0.20
3-835-412	Lid, battery -----	0.10
3-809-058	Cushion, battery -----	0.01
3-840-531	Spacer, battery cover -----	0.01
	* * *	

<u>Part No.</u>	<u>Description</u>	<u>Unit Price</u>
X-38405-88-1	Main Cabinet Ass'y, including -----	\$1.50
3-835-460	Cushion, 100 x 10 x 9 -----	0.03
3-835-401	Cabinet, main -----	0.38
3-840-515	Sash -----	0.04
3-835-446	Ornamental Plate, front -----	0.06
3-840-506	Fiber Washer -----	0.01
7-623-639-01	Eyelet 4 x 5 -----	0.08/100
	* * *	
X-38405-89-1	Rear Cabinet Ass'y, including -----	1.20
3-819-527	Ribbon, battery -----	0.02
3-822-524	Label, caution -----	0.01
3-823-309	Antenna Catch -----	0.02
3-835-411	Rear Cabinet -----	0.37
3-835-461	Cushion 80 x 10 -----	0.01
3-835-462	Cushion 220 x 6 -----	0.02
3-835-466	Cushion -----	0.03
3-840-505	Cushion 220 x 6 -----	0.02
3-840-510	Plate, specification -----	0.07
7-621-255-52	Screw, (+) P 2 x 8 -----	0.19/100
7-622-105-02	Nut, 2 ϕ -----	0.20/100
	* * *	
3-804-510	Retainer, speaker -----	0.01
3-811-140	Pulley P-10 -----	0.01
3-811-538	Terminal Plate, antenna -----	0.01
3-820-239	Pulley Shaft A -----	0.01
3-822-634	Heat Sink -----	0.04
3-828-820	Spring, dial cord -----	0.02
3-835-416	Holder, cursor guide -----	0.02
3-835-417	Guide, cursor -----	0.23
3-835-443	Contact Spring, battery negative -----	0.01
3-835-448	Retainer, dial cord -----	0.01
3-835-467	Washer, telescopic antenna -----	0.02
3-835-469	Fiber Washer -----	0.01
3-835-471	Guide Plate -----	0.03
3-835-474	Holder, pulley -----	0.15
3-840-501	Dial Drum -----	0.03
3-840-502	Cushion, tuning capacitor -----	0.01
3-840-503	Fiber Washer -----	0.01
3-840-508	Holder, tuning capacitor -----	0.05
3-840-509	Holder, jack -----	0.07

<u>Part No.</u>	<u>Description</u>	<u>Unit Price</u>
3-840-531	Spacer, battery cover -----	\$0.01
4-006-255	Check Pin -----	0.01

B. SCREWS, NUTS, WASHERS & MISCELLANEOUS (Per 100)

7-621-255-52	Screw (+) P 2 x 8 -----	\$0.19/100
7-621-773-93	Screw (+) P 2.6 x 2.5 -----	0.83/100
7-621-259-12	Screw (+) P 2.6 x 3 -----	0.23/100
7-621-259-22	Screw (+) P 2.6 x 4 -----	0.21/100
7-682-145-01	Screw (+) P 3 x 4 -----	0.15/100
7-682-147-01	Screw (+) P 3 x 6 -----	0.10/100
7-685-148-45	Screw, tapping (+) P 3 x 12 -----	0.35/100
7-621-722-46	Screw, tapping (+) P 3 x 6 -----	0.24/100
7-685-134-21	Screw, tapping (+) P 2.6 x 8 -----	0.28/100
7-684-035-01	Nut 5 ϕ -----	0.54/100
7-623-107-12	Washer 2.6 ϕ -----	0.09/100
7-623-212-12	Spring Washer 5 ϕ -----	0.09/100
7-623-408-01	Lock Washer, ext tooth 3 ϕ -----	0.19/100
7-623-508-01	Lug 3 ϕ -----	0.13/100
7-623-609	Eyelet 1.5 x 2 -----	0.05/100
7-633-120-52	Dial Cord -----	0.02/m

Ref. No.	Part No.	Description	Unit Price
-------------	----------	-------------	---------------

C. ELECTRICAL PARTS

Semiconductors

Q1		Transistor, 2SC710 -----	\$0.14
Q2		Transistor, 2SC710 -----	0.14
Q3		Transistor, 2SC930-C -----	0.13
Q4		Transistor, 2SC403B -----	0.14
Q5		Transistor, 2SC403B -----	0.14
Q6		Transistor, 2SC403B -----	0.14
Q7		Transistor, 2SB136B -----	0.12
Q8		Transistor, 2SB136B -----	0.12
Q9		Transistor, 2SC870 -----	0.12
Q10		Transistor, 2SB383 -----	0.18
Q11		Transistor, 2SB383 -----	0.18
D1		Diode, 1S1555 -----	0.07
TH1	8-691-001-11	Thermistor, CS-47 -----	0.05

Coils and Transformers

L1	1-401-484	Coil, bandpass -----	0.06
L2	1-425-533	Coil, rf -----	0.05
L3	1-405-479	Coil, osc. -----	0.05
L4	1-407-182	2.2 μ H, micro inductor -----	0.05
L5	1-407-175	330 μ H, micro inductor -----	0.03
L6	1-407-175	330 μ H, micro inductor -----	0.03
L7	1-401-484	Coil, bandpass -----	0.06
L8	1-421-006	Coil, choke -----	0.07
IFT1	1-403-243-31	Transformer, i-f -----	0.13
IFT2	1-403-243-31	Transformer, i-f -----	0.13
IFT3	1-403-555-11	Transformer, i-f -----	0.15
IFT4	1-403-555-11	Transformer, i-f -----	0.15
CF1	1-527-501-11 - 17	Ceramic Filter -----	0.25
T1	1-423-064	Transformer, driver -----	0.17
T2	1-427-128	Transformer, output -----	0.18

Ref. No.	Part No.	Description	Unit Price
<u>Capacitors</u>			
CV1,2	1-151-220	Capacitor, tuning -----	\$0.50
CT1,2	1-141-097	Capacitor, trimmer -----	0.05
C1	1-102-951	15 pF ceramic -----	0.02
C2	1-101-959	22 pF ceramic -----	0.02
C3	1-102-961	27 pF ceramic -----	0.02
C4	1-101-941	4 pF ceramic -----	0.02
C5	1-102-961	27 pF ceramic -----	0.02
C6	1-101-919	0.002 μ F ceramic -----	0.02
C7	1-102-951	15 pF ceramic -----	0.02
C8	1-101-919	0.002 μ F ceramic -----	0.02
C9	1-102-941	4 pF ceramic -----	0.02
C10	1-102-938	1 pF ceramic -----	0.02
C11	1-107-085	100 pF silvered mica -----	0.02
C12	1-102-600	22 pF ceramic -----	0.02
C13	1-102-945	8 pF ceramic -----	0.02
C14	1-101-919	0.002 μ F ceramic -----	0.02
C15	1-101-923	0.01 μ F ceramic -----	0.02
C16	1-101-919	0.002 μ F ceramic -----	0.02
C17	1-102-947	10 pF ceramic -----	0.02
C18	1-105-833-12	0.01 μ F mylar -----	0.02
C19	1-101-923	0.01 μ F ceramic -----	0.02
C20	1-105-833-12	0.01 μ F mylar -----	0.02
C21	1-105-833-12	0.01 μ F mylar -----	0.02
C22	1-105-833-12	0.01 μ F mylar -----	0.02
C23	1-102-939	2 pF ceramic -----	0.02
C24	1-121-469	10 μ F/10 V electrolytic -----	0.03
C25	1-121-469	10 μ F/10 V electrolytic -----	0.03
C26	1-105-833-12	0.01 μ F mylar -----	0.02
C27	1-101-837	0.5 pF ceramic -----	0.02
C28	1-105-833-12	0.01 μ F mylar -----	0.02
C29	1-105-833-12	0.01 μ F mylar -----	0.02
C30	1-105-833-12	0.01 μ F mylar -----	0.02
C31	1-105-833-12	0.01 μ F mylar -----	0.02
C32	1-127-020	0.22 μ F/10 V electrolytic (alox) -----	0.06
C33	1-105-839-12	0.033 μ F mylar -----	0.03
C34	1-121-469	10 μ F/10 V electrolytic -----	0.03
C35	1-127-020	0.22 μ F/10 V electrolytic (alox) -----	0.06
C36	1-121-487	47 μ F/6.3 V electrolytic -----	0.04
C37	1-127-022	0.47 μ F/10 V electrolytic (alox) -----	0.06
C38	1-121-469	10 μ F/10 V electrolytic -----	0.03
C39	1-105-839-12	0.033 μ F mylar -----	0.03
C40	1-121-413	100 μ F/6.3 V electrolytic -----	0.05

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit</u> <u>Price</u>
C41	1-121-420	220 μ F/6.3 V electrolytic -----	\$0.07
C42	1-105-833-12	0.01 μ F mylar -----	0.02
C43	1-105-833-12	0.01 μ F mylar -----	0.02
C44	1-121-425	470 μ F/6.3 V electrolytic -----	0.12
C45	1-101-923	0.01 μ F ceramic -----	0.02
C46	1-101-923	0.01 μ F ceramic -----	0.02
C47	1-101-923	0.01 μ F ceramic -----	0.02
C48	1-101-923	0.01 μ F ceramic -----	0.02
C49	1-101-917	0.005 μ F ceramic -----	0.02
C50	1-101-923	0.01 μ F ceramic -----	0.02
C51	1-101-917	0.005 μ F ceramic -----	0.02
C52	1-102-951	15 pF ceramic -----	0.02
C53	1-102-951	15 pF ceramic -----	0.02

Resistors

All resistors are 1/4 W, carbon type resistors, unless otherwise noted.

VR1	1-222-520	Variable Resistor 50 k Ω , SQUELCH -----	0.15
VR2	1-222-259	Variable Resistor 5 k Ω , VOL -----	0.19
R1	1-242-656	200 Ω -----	0.02
R2	1-242-661	330 Ω -----	0.02
R3	1-242-697	10 k Ω -----	0.02
R4	1-242-669	560 Ω -----	0.02
R5		- discarded -	
R6	1-242-671	820 Ω -----	0.02
R7	1-242-641	47 Ω -----	0.02
R8	1-242-713	47 k Ω -----	0.02
R9	1-242-675	1.2 k Ω -----	0.02
R10	1-242-697	10 k Ω -----	0.02
R11	1-242-661	330 Ω -----	0.02
R12	1-242-649	100 Ω -----	0.02
R13	1-242-697	10 k Ω -----	0.02
R14	1-242-649	100 Ω -----	0.02
R15	1-242-658	240 Ω -----	0.02
R16	1-242-649	100 Ω -----	0.02
R17	1-242-649	100 Ω -----	0.02
R18	1-242-719	82 k Ω -----	0.02
R19	1-242-670	750 Ω -----	0.02
R20	1-242-649	100 Ω -----	0.02
R21	1-242-697	10 k Ω -----	0.02
R22	1-242-714	51 k Ω -----	0.02
R23	1-242-684	3 k Ω -----	0.02
R24	1-242-653	150 Ω -----	0.02

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit</u> <u>Price</u>
R25	1-242-671	820 Ω -----	\$0.02
R26	1-242-697	10 k Ω -----	0.02
R27	1-242-687	3.9 k Ω -----	0.02
R28	1-244-677	1.5 k Ω -----	0.02
R29	1-242-656	200 Ω -----	0.02
R30	1-242-686	3.6 k Ω -----	0.02
R31	1-242-695	8.2 k Ω -----	0.02
R32	1-242-673	1 k Ω -----	0.02
R33	1-242-718	75 k Ω -----	0.02
R34	1-242-733	330 k Ω -----	0.02
R35	1-242-643	56 Ω -----	0.02
R36		- discarded -	
R37	1-242-679	1.8 k Ω -----	0.02
R38	1-242-646	75 Ω -----	0.02
R39	1-242-638	36 Ω -----	0.02
R40	1-242-610	2.4 Ω -----	0.02
R41	1-244-679	1.8 k Ω -----	0.02

Miscellaneous

TEL ANT	1-501-072	Antenna, telescopic -----	0.76
SP	1-502-183	Speaker -----	0.43
	1-506-108-31	Terminal Pin, antenna -----	0.01
J1	1-507-169-13	Jack, record out -----	0.05
J2	1-507-050-51	Jack, earphone -----	0.10
J3	1-507-261-11	Jack, ext. power -----	0.09
	1-507-901-12	Nut, record out jack -----	0.01
	1-581-169-14	Printed Circuit Board -----	0.21

<u>Part No.</u>	<u>Description</u>	<u>Unit Price</u>
D. <u>ATTACHED ITEMS</u>		
3-840-516	Cushion, upper -----	\$0.09
3-840-517	Cushion, lower -----	0.09
3-835-451-21	Packing Carton -----	0.21
3-835-455	Polyethylene Bag -----	0.01
3-995-572	Instruction Manual -----	0.05
3-994-309	Warranty Card, TR -----	0.02
3-994-390-14	Warranty Card -----	0.01
4-490-014	Service Station List -----	0.03
1-504-034-12	Earphone ME-20 -----	0.12
1-528-001	Battery, size "D" -----	
Y-20650-01-1	Ac Adaptor (AC-601W) -----	2.15